

ByteCode Velocity



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Introduction

Our project is about creating a comprehensive web platform that integrates listings for events, jobs, and accommodations into a single, user-friendly online environment. This platform is designed to simplify how users access, interact with, and share information.

Problem Statement

- ▶ **Information Overload:** Sifting through vast amounts of data to find relevant listings.
- ▶ **Fragmentation:** The need to use multiple services for different needs complicates the search process.
- ▶ **Lack of Community:** Many platforms focus on transactions over interactions, missing opportunities for users to connect and support each other.

This complexity leads to frustration, missed opportunities, and a sense of isolation in the digital space.

Solution

▶ **Unified Listings**

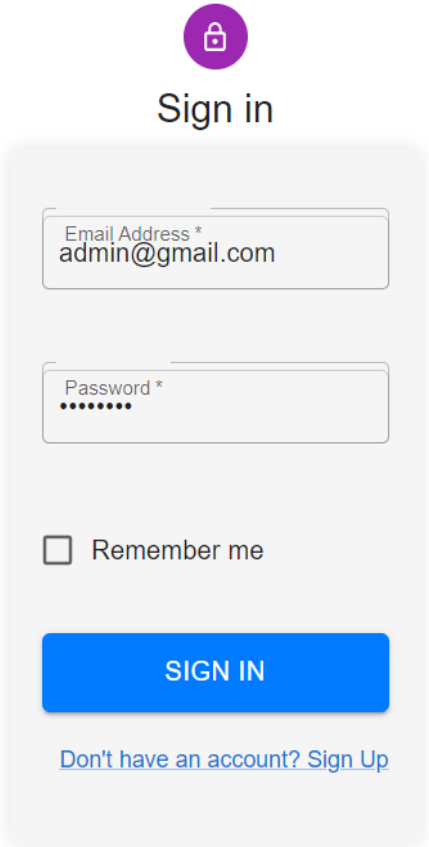
- All-in-one spot for events, jobs, and housing.
- Switch seamlessly between categories.

▶ **Instant Postings**

- Post listings in a flash, hassle-free.
- Easy edit and update on the go.

User Story and Majority components

- ▶ As a user i want to be able to create account and register to the system so that i can login and use the system as a registered user.



Sign in

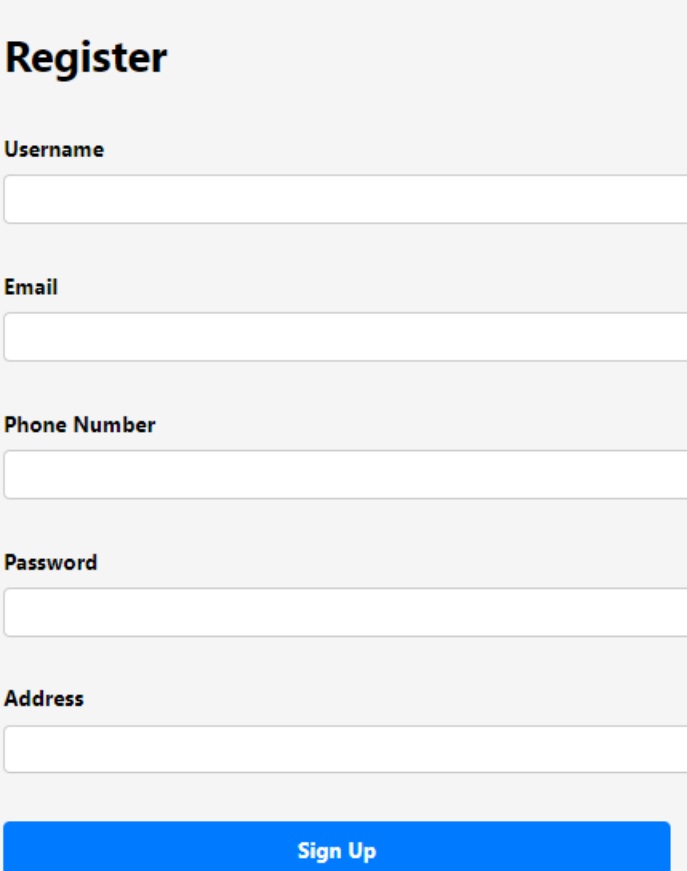
Email Address *
admin@gmail.com

Password *
••••••••

☐ Remember me

SIGN IN

[Don't have an account? Sign Up](#)



Register

Username

Email

Phone Number

Password

Address

Sign Up

- ▶ As a user i want to be able to create job, accommodation and event postings so that other users can view any postings that user create.

Create Vacancy

Drag 'n' drop an image here, or click to select an image

upload

College/institutionName

Post

Level

Vacancy

Type

Salary

Deadline

State

City

Venue

Education

Experience

Other Specification

Job Description

List a Room

Drag 'n' drop an image here, or click to select an image

upload

Room Type

Select a room type

Rent

Monthly rent

Move In

Date

Talk about the Space

Describe the space

Amenities

List the amenities

Roommate Rules

Any rules for roommate

Create Event

Drag 'n' drop an image here, or click to select an image

upload

Event Name

Event Organizer

Event Tag

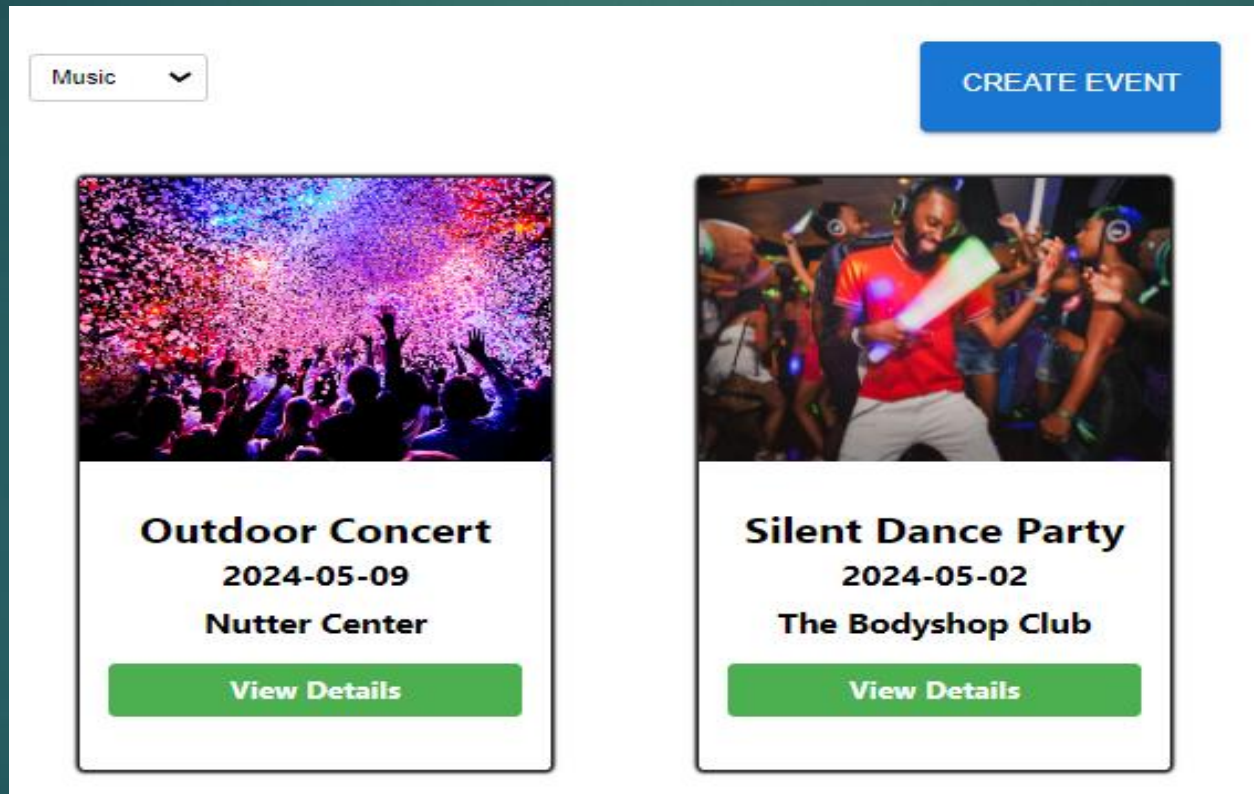
yyyy-mm-dd

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State

- ▶ As a user i want to filter the event posting based on the tags provided so that I can search the post i want easily.



- ▶ As a user I want to apply for the jobs i see in the posts so that i can get job opportunities.

College/Company : Mindgrub

Post : Software Developer

Job Level : Senior

Vacancies : 3

Employment Type : Full-time

Salary : \$125000

Appication Deadline : 2024-09-09

Education Level : Bachelors

Experience : 2 - 3 years

Delete

Edit

View Application

Other Specifications

- Strong knowledge of software design principles data structures algorithms and system architecture.
- Experience with cloud technologies (e.g. AWS Azure Google Cloud) and containerization (e.g. Docker Kubernetes) is highly desirable.
- Excellent communicatio

Job Description

- Lead the full software development lifecycle including requirements analysis design coding testing deployment and maintenance.
- Design and architect scalable reliable and maintainable software systems that meet performance and security requirements.

APPLY

Apply for Job

Drag 'n' drop a PDF here, or click to select a PDF

Upload

- ▶ As a user i want to be able to edit the information that i provided while creating the postings so that i can fix any wrong information that i might have provided.



Holi

Delete

Edit

19
2024-04-30

⌚
11:00 - 17:00

💰
\$undefined

About Event

Organizer: WSU

Holi is a popular and significant Hindu festival celebrated as the Festival of Colours, Love, and Spring. It celebrates the eternal and divine love of the deities Radha and Krishna.

Location

State: Ohio

City: Dayton

Venue: WSU Parking Lot 2

Create Event

Holi

WSU

Festive

2024 - 04 - 30

11 : 00 AM


05 : 00 PM

Ohio

Dayton

WSU Parking Lot 2

- ▶ As a user i want to be able to delete the posting that i created which are don't think are needed anymore so that other users wont be able to see those irrelevant postings anymore.



Outdoor Concert

[Delete](#) [Edit](#)

19

2024-05-09

🕒

18:30 - 00:36

🔒

Undefined

About Event

Organizer: WSU

concert, social institution for the public performance of music outside of a religious or dramatic context.

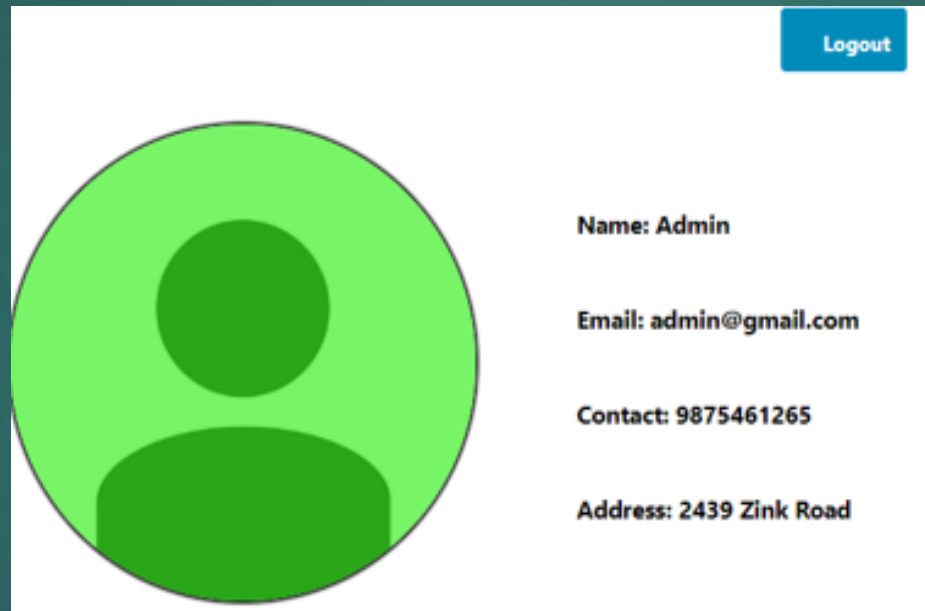
Location

State: Ohio

City: Dayton

Venue: Nutter Center

- ▶ As a user i want to be able to logout of the application once i have completed my task so that i can safely stop using the application without risk of my identity being stolen.



- ▶ As a User i want to be able to send message to the development team so that i can aware them if there are any issues or if i have any inquiry.

Contact Us

Full Name


Email


Mobile


Message

SUBMIT

RESET

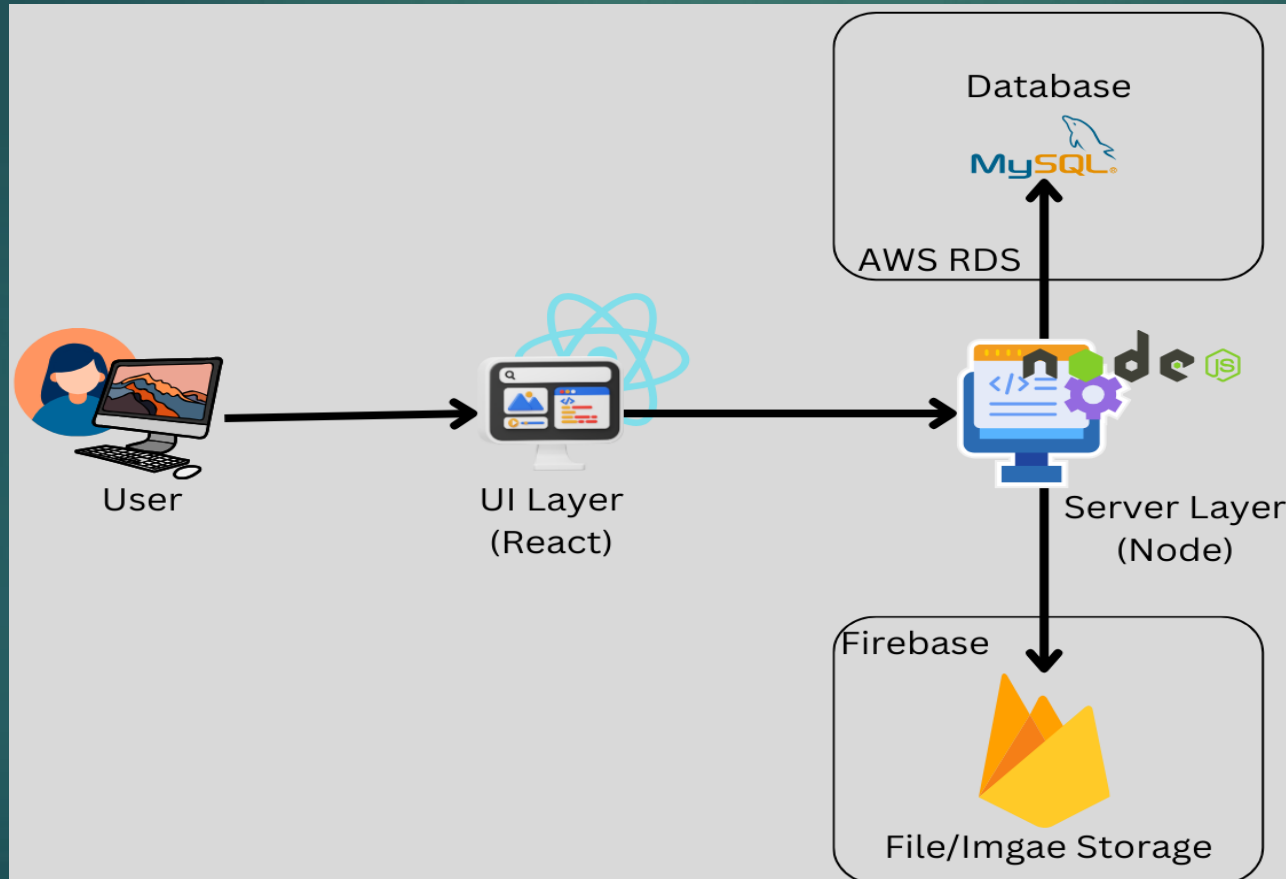

Fairborn, Ohio


9876543210


bytecodevelocity0@gmail.com

I hope you found something that piqued your interest here. We would be very happy yo answer any questions. Do check back for future updates.

Architecture Overview



► Frontend:

Technology: React

Role: Responsible for presenting the user interface and handling client-side logic.

Communication: Makes API calls to the backend using HTTP protocols through REST API.

Backend:

Technology: Node.js

Role: Processes API requests, handles server logic, authentication, and authorization.

Communication: Performs database operations with the MySQL database.

Database:

Technology: MySQL hosted on AWS RDS

Role: Stores, retrieves, and manages application data securely and efficiently.

File Storage:

Technology: Firebase Storage

Role: Manages storage and retrieval of files and images for the application.

Interaction: Allows direct uploads and downloads from the frontend for optimized performance and provides download URL of uploaded files.

Requirements and Design elements

Registration

- ▶ The system shall provide a registration mechanism for new users.
- ▶ Users shall be able to provide essential information to register (e.g., email, password).

Login

- ▶ Registered users shall be able to log in to the system using their credentials.
- ▶ The system shall authenticate users upon login.

Login

[Forgot Password?](#)

Sign in

☐ Remember me[Don't have an account? Sign Up](#)

► User Registration

SignUp/Register

Username

Email

Password

Confirm Password

Already have an account? [Login](#)

Register

Username

Email

Phone Number

Password

Address

Requirements and Design elements

Event Posting

- ▶ Any registered user shall be able to create a post for an event.
- ▶ The user shall be able to give information about the event such as name, location, date, time, organizer, venue of the event when creating the event posting.
- ▶ Event posts shall include tags related to the event. The tags for the event can be event type, etc.

Job Posting

- ▶ Any registered user shall be able to create a job posting.
- ▶ The user shall be able to give information about the job such as name of hiring organization, level, salary, deadline, location, as well as education and experience requirements of the event when creating the job posting.
- ▶ Job postings shall include tags related to the job. The tags may include part time, currently open, full time, negotiable/ non-negotiable salary.

Create Event

LOGO

Search

About | Contact | Login | Signup

Home | Events | Jobs | Accommodations

Create Event

Event Name

Event Organizer

Event Tag

Date

Start Time

End Time

State

City

Venue

Description

Create

Cancel

Create Event

Drag 'n' drop an image here, or click to select an image

upload

Event Name

Event Organizer

Event Tag

yyyy - mm - dd

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State

Create Accommodation

List a Room

Room Type

Rent

Move In

Talk about the Space

Amenities

Roommate Rules

Location

Create

Cancel

List a Room

Drag 'n' drop an image here, or click to select an image

upload

Room Type

Select a room type

Rent

Monthly rent

Move In

Date

Talk about the Space

Describe the space

Amenities

List the amenities

Roommate Rules

Room rules for roommate

Create Job

LOGO [About](#) | [Contact](#) | [Login](#) | [Signup](#)

Home | Events | Jobs | Accommodations

Create Vacancy

Create Vacancy

Drag 'n' drop an image here, or click to select an image

upload

Event Post

LOGO


About | Contact | Login | Signup

Home | Events | Jobs | Accommodations

Category V

Create Event


Date



Location

Title


Date



Location

Title


Date



Location

Title


Date



Location

Title


Date



Location

Title


Date



Location

Title


Date



Location

Title


Date



Location

Title


Date



Location

Title

Date




Location

Title

All Tags

Create Event




Outdoor Concert

2024-05-09

Nutter Center

View Details




Blood Donation

2024-04-22

Kettering Health

View Details




Holi


2024-04-30

WSU Parking Lot 2


View Details



Stand Up Comedy



Stargazing



Food Donation

Accommodation Posts

Category

V

Create Acco.



City
Private Room
\$500/month



City
Private Room
\$500/month

CREATE ACCOMMODATION



Suite
\$500
Beavercreek, OH

[View Details](#)



Double
\$515
Dayton, OH

[View Details](#)



Single
\$400
Portmac, Maryland

[View Details](#)



Single
\$300
Chicago, Illinois

[View Details](#)



Double
\$450
Springfield, OH



Double
\$550
Baltimore, Maryland

Job Posts

LOGO

Search

About | Contact | Login | Signup

Home | Events | Jobs | Accommodations

Category V


Create Job

Job Title

Position

Vacancies

Location




Job Title

Position

Vacancies

Location




Job Title

Position

Vacancies

Location



CREATE VACANCY



Software Developer

Full-time
Vacancy: 3

[View Details](#)



Assitant Librarian

Beginner
Vacancy: 2

[View Details](#)



Librarian

Part-Time
Vacancy: 1

[View Details](#)

Apply Job

- Members shall be able to upload document i.e. CV to a job posting portal. The uploaded documents may be used to hire people. Only the job posting owner and the user who uploaded the document shall be able to view or update it.

LOGO

Search

About | Contact | Login | Signup

Home | Events | Jobs | Accommodations

Back

CV/Resume

Upload Files

No Files Chosen

Other Documents

Upload Files

No Files Chosen

Other Documents

Upload Files

No Files Chosen

Apply

Apply for Job

Drag 'n' drop a PDF here, or click to select a PDF

Upload

Apply Job

Application List		
Document	Date Applied	
Application 1	2024-04-09	<div><div><div>7b991abd-62ce-4dda-a99... 1 / 3 67% + [icon] [icon]</div><div><div>1</div><div>CV SAMPLE</div></div></div><div><div><div>Rachel Green 210 W. GREEN ST., CHAMPAIGN, IL (217) 555-1234 • RSTUDENT@ILLINOIS.EDU</div><div>EDUCATION PhD in English May 20xx University of Illinois at Urbana-Champaign <i>Dissertation title:</i> "Down on the Farm: World War One and the Emergence of Literary Modernism in the American South" <i>Committee:</i> Margaret Black, Naomi Blue, John Jay, Robert Roberts (Chair) MA in English 20xx University of Illinois at Urbana-Champaign BA in English and Communications, <i>summa cum laude</i> 20xx Butler University, Indianapolis, IN TEACHING & ADVISING 20xx-present Composition Instructor <i>Research Writing Program, University of Illinois</i><ul style="list-style-type: none">Facilitator for seven sections of English composition.Planned and taught a writing-intensive course based upon current events.Used instructional technology to enhance pedagogical technique.Taught in part with an innovative, interdisciplinary team-teaching program design.</div></div></div><div>Hide</div></div>
Application 2	2024-04-09	<div>Show</div>

Accommodation Description

[Back](#)

Private Room
\$500/month
Move In: Available Now

ABC's Place

Space

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.

Amenities

* Wifi * Furnished * Basketball Court

Roommate Rules

* No Smoking * No Pets * No gathering

Location

Lorem Ipsum is simply dummy text



Ask A Question/Discussion

Lorem Ipsum is simply dummy text?

- > Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book.

[Post](#)

Alex

(987)-564 7686
alex@gmail.com

Room: Suite

\$500

Move In: 2024-04-19

ABS's place

Space

This isn't simply where you live. This is where your life unfolds. It's nights you'll always remember and days you could never forget. It's friends by the pool and around the grill. It's a sip of something tasty at the café. It's where the things that sur

Amenities

- Air Conditioning
- Basement
- Carpet
- Washer/Dryer
- Wi-Fi

Roommate Rules

- No Pets
- No Smoking
- No Party

Location

Location: Beaver creek, OH



John Doe



9811434001



john@gmail.com

[Delete](#)[Edit](#)

Jobs Description

LOGO

Search

About | Contact | Login | Signup

Home | Events | Jobs | Accommodations

Back

Company/College

:

Lorem Ipsum

Post

:

Lorem Ipsum

Job Level

:

Lorem Ipsum

Vacancies

:

Lorem Ipsum

Employment Type

:

Lorem Ipsum

Salary

:

Lorem Ipsum

Application Deadline

:

Lorem Ipsum

Education Level

:

Lorem Ipsum

Experience

:

Lorem Ipsum

Other Specification

• Lorem Ipsum is simply dummy text of the printing and typesetting industry.

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Job Description

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Apply

College/Company

:

Mindgrub

Post

:

Software Developer

Job Level

:

Senior

Vacancies

:

3

Employment Type

:

Full-time

Salary

:

\$125000

Application Deadline

:

2024-09-09

Education Level

:

Bachelors

Experience

:

2 - 3 years

Other Specifications

- Strong knowledge of software design principles data structures algorithms and system architecture.
- Experience with cloud technologies (e.g. AWS Azure Google Cloud) and containerization (e.g. Docker Kubernetes) is highly desirable.
- Excellent communicatio

Job Description

- Lead the full software development lifecycle including requirements analysis design coding testing deployment and maintenance.
- Design and architect scalable reliable and maintainable software systems that meet performance and security requirements.

APPLY

Requirements and Design elements

Job Post Edit

- ▶ The user who created the job post shall be able to edit the post. All the fields of the job posting along with the tags can be updated.

Job Post Delete

- ▶ The user who created the job post must be able to delete the post. The deleted job posting shall not be shown to the users.

Event Update

- ▶ The user who created the event post must be able to edit the post. All the attributes as well as the tags associated with the event can be updated.

Event Delete

- ▶ The user who created the event post must be able to delete the post. The deleted event shall not be visible to the users.

Requirements and Design elements

Accommodation Edit

- ▶ The user who created the accommodation post shall be able to edit and delete the post. All the fields of the accommodation postings shall be able to be updated.

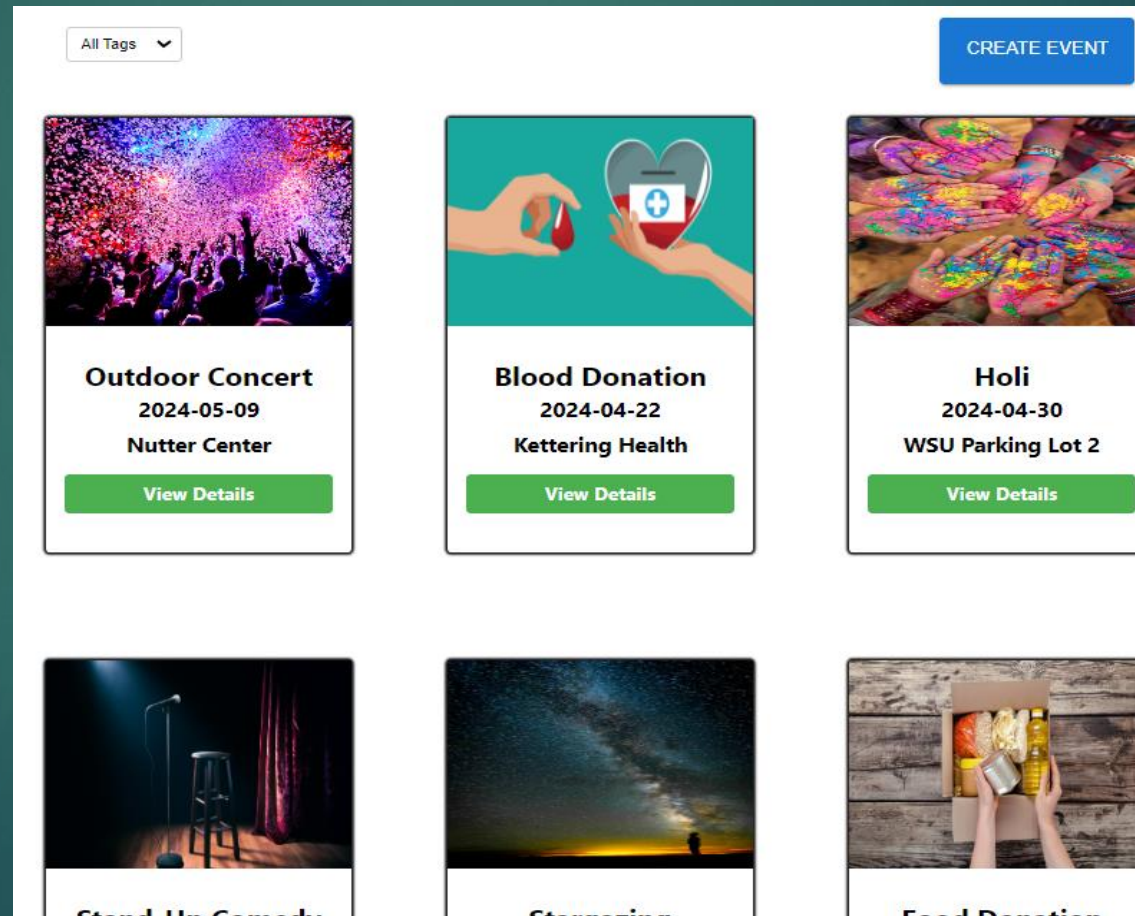
Accommodation Delete

- ▶ The user who created the accommodation post shall be able to delete the post. The deleted post shall not be visible to the users.

Requirements and Design elements

Filter Events

- ▶ The users shall be able to filter out the events filtered based on the type of event.



Conclusion

- ▶ Our application, represents a leap forward in how we connect online, bringing together jobs, events, and housing in one easy-to-use platform. It simplifies the digital chaos, making it easier for everyone to find what they need and share what they offer. In essence, Our system is about creating a more inclusive, efficient, and connected digital community for all.